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## **CLAIMS**

What is claimed is:

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An apparatus for use in more effectively placing perforations in a wellbore comprising:

an elongated housing formed for axial insertion into said wellbore;

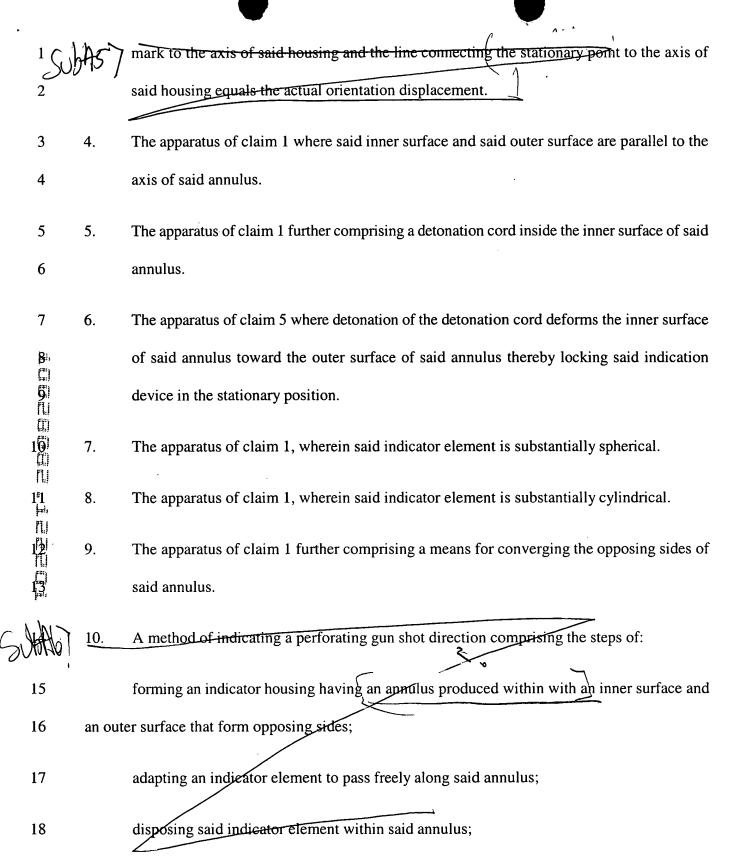
5 one or more shaped charges disposed within said housing;

an indicator mechanism created from a deformable material secured within said elongated housing, said indicator mechanism formed to comprise an annulus formed within, said annulus having an inner surface and an outer surface forming opposing sides and having an axis parallel to the elongated housing axis; and

an indicator element disposed and freely moveable within said annulus, such that upon rotation of said elongated housing said indicator element responds to gravitational forces and moves along the annulus to a location closest to the source of the gravitational forces, and upon sufficient convergence of said opposing sides, said indicator element is squeezed between said opposing sides and is locked into a stationary position.

- 2. The apparatus of claim 1 wherein said stationary position is the lowest location within said annulus.
  - The apparatus of claim 1 further comprising a mark within said annulus coinciding with the calculated annulus low point, where the angular difference between the line connecting the

the shown



$^{1}$ $\bigcirc$	securing said indicator housing within a perforating gun having shaped charges such that the
2	axis of said annulus is parallel to the longitudinal axis of the perforating gun;
3	inserting the perforating gun within a wellbore to a location where the shaped charges are to
4	be detonated;
5	detonating the shaped charges while simultaneously converging the opposing sides of said
6	annulus against said indicator element and locking the indicator element into a stationary position;
7	examining the location of the stationary position with respect to the perforating gun and the
	shaped charges; and  determining the orientation of the perforating gun at the time the shaped charges were
	detonated based on the location of the stationary position.
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